

ABSTRACT

A concentric coaxial cutting machine which cuts cylinders, cylindroids or cones using a chain saw from a single larger object such as a wood tree trunk, a block of ice or a block of plastic. An embodiment of the invention comprises a transverse support member having directly or indirectly mounted thereon; a headstock member including; a headstock spindle member mounted to said headstock member including; a drive spindle rotationally mounted to said headstock spindle member and adapted to rotationally retain one end of an object to be centrally cut; a tailstock member including; a tailstock spindle member mounted to said tailstock member including; a tailstock spindle rotationally mounted to said tailstock spindle member and adapted to retain an opposite end of said object; a drive assembly in rotational communication with said drive spindle and adapted to rotate said drive spindle around a common axis with said tailstock spindle; and, a first chain saw variably aligned at an angle to said common axis and adapted to concentrically cut said object from at least said opposite end.